



## 12.1" Chassis Mount Enhanced High Bright LCD Display



This high bright low power monitor can easily be read in all lighting conditions, including high ambient light, direct sunlight and at night, which makes it perfect for use in a multitude of vertical markets. The LCD provides a thermal management system and can be dimmed.

### SPECIFICATIONS

**Display Panel**

12.1" SVGA TFT

**Active Display Area**

246mm (h) x 184.5mm (v)

**Pixel Format**

800 x 600

**Resolution**

SVGA / 6 bit color

**Number of Colors**

262K

**Viewing Angle**

Horizontal: 60° min 70° typ (a) & (b)  
Vertical: 35° min 50° typ (a) & 55° min 60° typ (b) (refer to fig. 1 in mechanical drawing)

**Screen Brightness**

1700 cd/m<sup>2</sup> typical, 1500 cd/m<sup>2</sup> min

**Contrast Ratio**

300 typical (luminance with all pixels white/luminance with all pixels black - refer to fig. 3 in mechanical drawing)

**Uniformity**

80% min, >90% typ (uniformity = (Lmin/Lmax see fig. 2 in mechanical drawing)

**Uniformity Modulation**

10% min, <5% typ (uniformity modulation = (Lmax-Lmin) / (Lmax+Lmin))

**MTBF (excluding lamps)**

50,000 hours typical

**Lamp Life**

50,000 hours typical at 25°C to 50% (full brightness)

**Power Consumption**

50 W, max (results obtained with inverter at 84% efficiency; results may vary with other inverters)

**Temperature (Normal Operation)**

Range with Dry Bulb: 0 to 50°C  
Max. Temp Change Rate: 10°C per hour  
Relative Humidity: 10 to 90% NC  
Max Humidity Change Rate: 10% per hour  
Sudden Temp. Change: 12°C  
Max Dew Point Temp: 26° C

**Temperature (Extreme Operation)**

Range with Dry Bulb: 0 to 50°C  
Max. Temp Change Rate: 15°C per hour  
Relative Humidity: 5 to 90% NC

**Temperature (Other)**

Storage: -10 to 50°C  
Transit: -40 to 60°C

**Humidity (Other)**

Storage: 10 to 90%  
Transit: 5 to 95%

**Barometric Pressure**

Operating and Storage: 105 x 10<sup>3</sup> Pa, sea level to 70 x 10<sup>3</sup> Pa (9850 ft)

**Dimensions**

12.4" (w) x 9.2" (h) x 3.9" (d)  
315mm (w) x 232.6mm (h) x 99mm (d)

**Weight**

7.5 lb / 3.4 kg

**Optional Touch Screen**

Resistive or Capacitive

**Compliant With:**

CSA Standard for Safety of IT Equipment (C22.2 No. 60950-1) + UL60950-1

IEC 60950-1 & EN 60 950-1 Safety of Information Technology Equipment including Electrical Business Equipment

RFI Radiated Emission to EN55022 (Latest Revision) Class B

RFI Radiated Susceptibility EN61000-4-3: (Latest Revision) 6V/m with 1kHz, 80% Modulation over the frequency range 80 - 1000MHz.

RFI Radiated Susceptibility ENV50204: (Latest Revision) 6V/m with 200Hz Pulse modulation. Spot Frequency 900MHz.

Electrical Fast Transients EN61000-4-4: (Latest Revision) (1kV data)

Electrostatic Discharge EN61000-4-2: (Latest Revision) contact discharge +/-5kV and air discharge +/-14kV

RFI Conducted Susceptibility EN61000-4-6: (Latest Revision) test level 6V, prior to application of 1kHz, 80% modulation. Test frequency range 0.15 MHz to 80 MHz

Power Frequency Magnetic Immunity EN 61000-4-8: (Latest Revision), 3 A/m



### FEATURES

- ◆ High Bright, Low Power
- ◆ Readable in Sunlight, High Ambient Light and Night Time Conditions
- ◆ Thermal Management System
- ◆ Capable of Dimming Beyond 500:1 ratio

### CONTACT

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Figure 1. Viewing angle

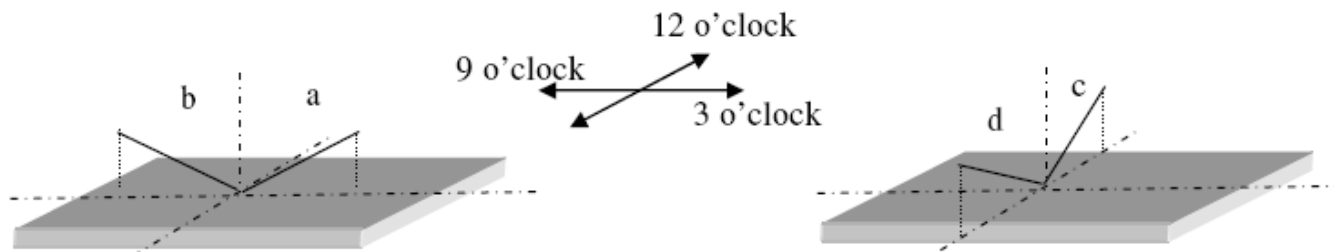
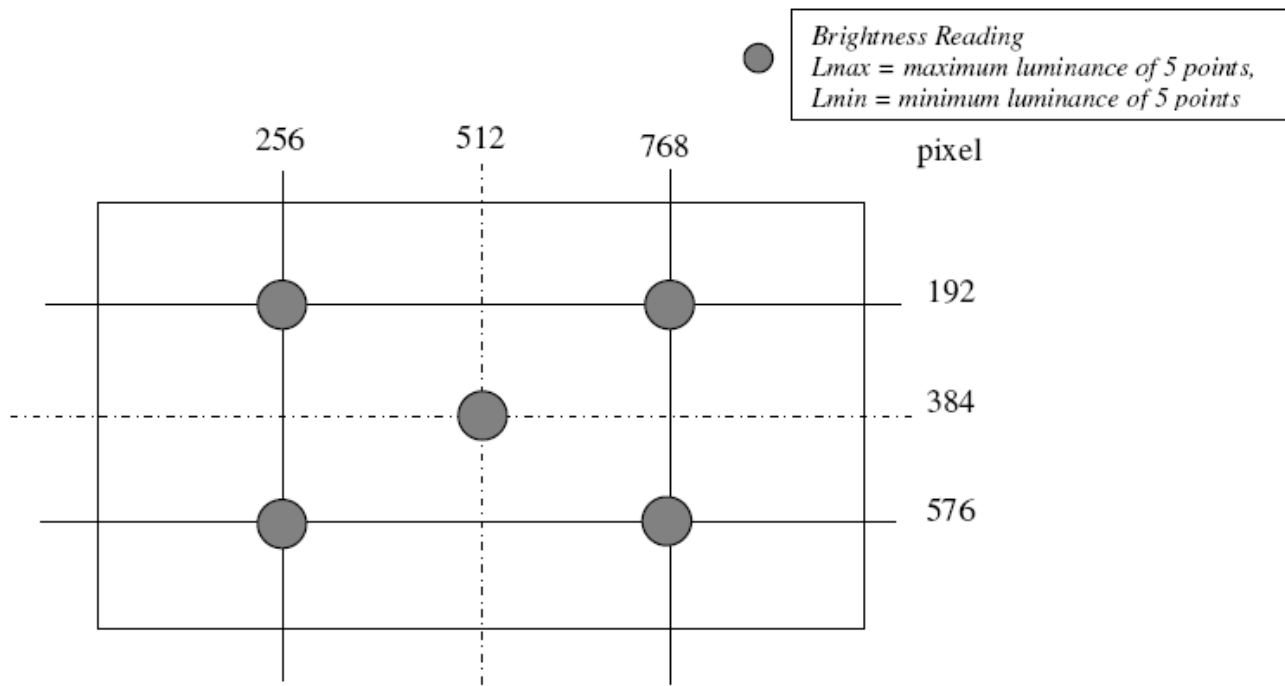


Figure 2. Uniformity measurement





**Figure 3. Contrast Ratio Measurement Method.**

Test carried out in a dark room after panel has been running for 30 minutes continuously.

